

International	

PCT/US03/27828

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : E04B 9/00						
US CL: 52/506.03, 28, 506.06 According to International Patent Classification (IPC) or to both national classification and IPC						
- THE WA COLUMN						
Minimum documentation searched (classification system followed by classification symbols)						
U.S.: 52/506.03, 28, 506.06						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Documentation scarched cuts. and analysis are a second cuts.						
Electronic da	ta base consulted during the international search (nar	ne of data	base and, where practicable, s	search terms used)		
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate,	of the relevant passages	Relevant to claim No.		
A	US 4,835,916 A (STEADMAN) 6 June 1989 (06.00	1-51				
A	US 5,261,204 A (NEFF) 16 November 1993 (16.11	.1993), Eı	ntire document	1-51		
A	US 4,932,170 A (SPEAR) 12 June 1990 (12.06.1990), Entire document			1-51		
A	A US 4,540,847 A (GARDNER) 10 September 1985 (10.09.1985), Entire document			1-51		
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Furthe	r documents are listed in the continuation of Box C.		See patent family annex.			
	Special categories of cited documents:	*T*	later document published after the int	emational filing date or priority		
date and not in conflict with the application but cited to und						
	t defining the general state of the art which is not considered to be		principle or theory underlying the inv	ention		
of partic	ular relevance	"X"	document of particular relevance; the	claimed invention cannot be		
"B" carlier a	pplication or patent published on or after the international filing date		considered novel or cannot be conside	ered to involve an inventive step		
			when the document is taken alone			
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specified			considered to involve an inventive ste			
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"O" documen	it reterring to an oral discionate, use, cambition as other means		•			
	t published prior to the international filing date but later than the	"&"	document member of the same patent	family		
priority date claimed						
Date of the actual completion of the international search		Date of mailing of the international search report				
The same of the sa		28 JAN 2004				
EZ Januar y ESOT (ESOT)						
Name and mailing address of the ISA/US Authorized officer						
Mail Stop PCT, Attn: ISA/US						
Commissioner for Patents						
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Facsimile No. (703)305-3230						